



Research on the Problem of Network Fraud Crime in the Era of Big Data—Taking “Killing Pig Plate” Type Network Dating Software as an Example

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Abstract

Under the backdrop of big data, online fraud crimes are on the rise, with "pig butchering pan" scams gaining prominence, particularly in the realm of online dating software. Due to the characteristics of the entire fraud process, such as precise targets, clear internal division of labor, covert fraud processes, and a well-established fraud framework system, it poses significant threats to the legitimate rights and interests of the state, society, and individuals, as well as property security. This article discusses the real case of the "3m killing pig plate" in Changsha City, Hunan Province. It provides a comprehensive analysis of contactless fraud crimes conducted through online platforms. In dealing with new fraud cases involving the manipulation of victims' psychology through online dating platforms, common challenges include inadequate network supervision, challenges in apprehending and recovering stolen assets, and gaps in early warning systems. Addressing these issues necessitates the establishment of fundamental laws and regulations. The early warning mechanism of public security agencies and related enterprises should be carefully enhanced.

Keywords

"Kill pig plate", Network dating, Network fraud

1. Introduction

With the high-quality development of the social economy, computers, and the Internet have become an indispensable and important role in our life. With the traditional mode of telecom network fraud prevailing in 2000, there has been an upgraded version of "killing pig pan" (Sun Tiancheng, 2023), which is a new mode of network fraud popular in society in recent years, mainly through some network social chat software as a channel, in love or other ways with potential interests to obtain the victim's trust. Thus, inducing the parties to invest or defraud a larger amount of property. According to the press conference held by the Supreme People's Court on September 6, 2022, the relevant work of the People's Court to punish telecom network fraud crimes was notified, and ten typical cases of telecom network fraud crimes and related crimes were released recently. It can be seen that the overseas crime rate of telecom network fraud is as high as 80%. The domestic "killing pig plate" network fraud cases involved the amount of 3.88 billion yuan, due to the number of deceived, the amount involved is larger, the public security organs and judicial organs for the fight against such crimes also significantly increased, and the Internet fraud crime is growing, while bringing many social problems.

2. The concept and characteristics of "killing pig plate" type online dating software fraud

2.1 The concept of "killing pigs" type of online fraud

"Kill the pig plate" refers to the fraud gang using network dating software as a channel, the victim is called "pig" 2; The fraud gang purchased false identity information through some channel, disguised in all aspects, and molded itself into a successful person or the image of "Gao Fu Shuai" and "Bai Fu Mei" in order to win the trust of victims. The technique they usually use is to operate in the background, guide the other party into the so-called "love" life, let them invest in the project of their own interest, this network software or investment website used to defraud "Pan"; Finally, the fraud gang uses the background to double, give the victim "sweetness", so that the sense of trust between the two sides gradually increases, the criminal suspects will also increase their betting efforts, carry out a high amount of fraud, defraud the victim of money called "killing pigs".

2.2 The characteristics of "killing pig plate" type network fraud

2.2.1 Clear internal division of labor

As one of the new types of network fraud, "killing pig pan" has a mature internal structure and accurate division of labor. According to relevant practice, most criminal organizations under the "killing pig plate" generally have data collection groups, traffic connection groups, technical groups, and money laundering groups. The data collection group (namely "Xunzhu") collects a large amount of information about the victim through chat software such as Soul, Tantan, Momo, etc., and accurately locates the victim; The call connection group ("pig") is responsible for communicating with the victim and further contacting the person; The technical group (that is, the "killing pig") is generally the main operator of the follow-up, the packaging image of the member in the early stage, and the property of the victim is transferred to the organization through the technical support of the technical group after the victim is deceived; Finally, the money laundering team emptied the money obtained by fraud Shell companies, illegal transfers, investment money laundering and other channels for "white washing". It can be seen that the internal division of labor has precise characteristics.

2.2.2 Precise means of fraud

The "killing pig plate" type fraud gang has the characteristics of precision from the target selection, the packaging of the internal members' images, and the "words" of fraud. Such deceived objects themselves have the characteristics of being old and unmarried, a good economic foundation, and emotional loss, which provide a large number of options for fraud gangs. From the above series of operational processes, it can be seen that the operation of criminal gangs has almost no gaps for the groups who fall in love, resulting in the "killing pig plate" type of network fraud being extremely deceptive.

In addition, the ways and means of the perpetrators are extremely characteristic. From the emotional point of view, the way to gain the victim's trust is in a gradual process, fully grasp the victim's psychology (Anonymous, 2021), and timely promote the process of money cheating. From the technical point of view, the technical team of the criminal gang can obtain some of the main information of the victims through the login authentication information and simple processing; In addition, the supervision loopholes existing in social platforms are not strict enough to obtain more basic information of victims and lay a good foundation for the next step of "killing pigs". In practice, the success rate of similar cases is often very high, because its internal organizational structure is more rigorous, the hierarchical division of labor is clear, and it is difficult to let the victim find, and objectively enhance the probability of fraud success.

3. Analysis of basic facts and current situation of typical "killing pig plate" cases in Changsha, Hunan Province

3.1 Brief introduction of the case

Li, a freshman at a university, had a perfect "encounter" with a woman who called herself a "dancer" through an online dating app. In August 2018, the woman who claimed to be a "dance girl" mentioned a website called "3m" in her chat, which is actually a Ponzi scheme made by a foreign person called Maffro, under the guise of mutual assistance, which is actually a circle of money. In the rising stage of two people's feelings, Li Mou put forward the requirements of his beloved girl is also as far as possible to meet, and for the first time investing 1000 yuan, its doubled

interest rate reached two times or even three times. Such a high interest makes Li Mou not consider too much, and continue to put in 20,000 yuan. However, the good times did not last long, after investing twenty thousand yuan, there was a crash, and Li Mou felt that he was not deceived at this time.

With the "dancing girl" lady next to continue to encourage, in the three months after the crash, re-established a new plate, and successively feedback to Li more than 10,000 yuan. Li Mou in the emotional urging and the short-term benefits of the lure to keep investing money, and finally in the investment of 200,000 yuan, found no reply, called "dance Ji" lover also quickly deleted him.

3.2 The practice of "killing pig plate" type telecom network fraud

3.2.1 Public awareness of fraud prevention is weak

"Killing pig plate" type telecom network fraud perpetrators usually use network software (including chat, phone or message, etc.) to get in touch with the victim, the degree does not have the characteristics of direct violence, subjectively will not let the public have the direct psychology of fear, and the deception is stronger. However, for such crimes with complicated fraud processes, the public still has a weak awareness of fraud prevention and is more affected by harmful groups that occur repeatedly. The root cause is that the public's awareness of anti-fraud and protection of personal property safety is still at a low level. If such behavior is allowed to develop, it will have a serious impact on social and economic development and public property safety.

3.2.2 It is difficult to arrest and recover stolen goods

The most typical characteristic of the new network fraud crime is that it involves a wide range, a small village is a gathering place, and many involve the fraud gangs in the whole province, and even the whole country, with cross-regional characteristics. The worldwide connectivity brought about by the development of the Internet also hides problems that are difficult to control. Often, the occurrence of online fraud crimes requires the joint police forces of many regions and even many countries to fight together, and the difficulty of arrest has encountered great challenges.

4. Measures to prevent new types of cyber crimes

4.1 Strengthen anti-fraud publicity and enhance awareness of fraud prevention

There are various new modes of network fraud, which seriously damage the property security of the people. One of the most effective measures to protect it is in-depth anti-fraud propaganda and education from a small range to a large range, which not only propagandizes with slogans on the surface but also enriches the form and content of propaganda for different audience groups. First of all, anti-fraud education will be implemented on campus, especially in the aspects of brushing fraud, lending personal bank cards, etc., to strengthen students' awareness of fraud prevention and improve the ability to distinguish online fraud (Qiu Xiaoyan, 2019); Secondly, for the elderly and other groups, the local government can regularly dispatch personnel to organize anti-fraud programs for the elderly and explain the situation of cybercrime cases to the elderly in a popular form, which can reduce the fraud rate of the elderly to a certain extent (Qiu Xiaoyan, 2019). Finally, aiming at high-risk groups such as middle-aged women as the key propaganda objects, the anti-fraud propaganda is carried out in online modes such as Tiktok, Weibo, and WeChat public accounts, or in transportation vehicles such as trains, high-speed railways and airplanes, and animated versions of anti-fraud propaganda manuals are distributed, which are presented in the form of typical cases of using online dating software in local bulletins. Let such groups realize the harm of "killing pig plate" type online dating fraud cases, comprehensively enhance the public's prevention of fraud problems in online dating software, and enhance the public's awareness of fraud prevention.

4.2 Improve relevant laws and regulations on Internet fraud cases

First of all, as the basic law to ensure network security in China, the "Network Security Law" has been implemented since 2017, from the initial basic crime cases against network security to the identification of the main responsibility of network security and the definition of the nature of network security crimes, and has gradually improved, and achieved effective results. Secondly, at present, China's relevant laws on Internet fraud cases mainly include Article 266 of the Criminal Law, Article 1195 - Article 1197 of the Civil Law on the regulation of Internet service providers, the Law of the People's Republic of China on Internet Fraud, Opinions on Several Issues concerning the Application of Law in criminal cases such as Telecommunications fraud, etc. (Zhang Haoyi, 2021). In particular, the latter two

laws focus on solving problems such as difficulty in obtaining evidence and difficulty in conviction. Therefore, it is necessary to integrate the legal and regulatory systems between various countries and regions, find the commonly recognized parts, seek common ground while sheltering differences, learn from and learn from each other, discuss the legal documents specified during the period, and form a mechanism consensus, which is convenient for investigation work and the solution of some trans-regional and cross-border online fraud cases (Yu Shiliang, 2020).

4.3 We will build a diversified early-warning and prevention system

The early-warning prevention and control mechanism of "killing pig pan" type online fraud cases is mainly based on big data promotion. Under the pressure of increasing the difficulty of investigation and evidence collection, public security organs need to establish an early warning and prevention mechanism centered on big data, promote police reform, achieve proactive prevention, and strengthen the link with the public (Bai Aotting, 2020). The training of police talents should be digitalized and practical-oriented, focusing on cultivating outstanding police talents, and jointly carrying out a series of cooperative training in Southeast Asia, so that police talents can not only master the basic characteristics and development trend of Internet fraud crime at the theoretical level. At the technical level, it can face the comprehensive application of cases (including processing, analysis, and application capabilities), which is conducive to combating transnational network fraud cases; Financial institutions should fully implement the real-name system of credit card processing, strictly restrict one person and one card, and do a good job in the supervision of fund flow. Internet platforms should regularly clean up false induction information published on social platforms, do a good job in shielding and disconnecting, and report to the network regulatory authorities in a timely manner.

5. Conclusion

In general, the advent of the information age will inevitably bring a certain test to society. In the face of the problems of new cybercrime cases, especially the "pig-killing" Internet fraud cases in the name of online dating software, it has brought serious damage to the legitimate rights and interests of the country, society, and people's property, which needs to be further examined. In view of such cases, whether it is difficult to obtain evidence in the investigation process, the problem of recovering stolen goods, or the case itself has the characteristics of strong concealment, wide scope, etc., it is necessary to strengthen the existing laws and regulations on Internet fraud, and severely crack down on the use of Internet crime cases; Finally, for the general public, it is more important to improve their own awareness of network security prevention. In the face of some information and network links, they should improve their ability to identify and reduce the phenomenon of being greedy and cheap. Internet fraud cases need to be jointly maintained by the whole society to build a safe, harmonious, and stable network security society.

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